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<120> Derivatives of the IL-2 receptor Gamma chain, their preparation and use

<130> 530

<150> 149217

<151> 2002-04-18

<150> 152183

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<160> 21

<170> PatentIn version 3.1

<210> 1

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1

Glu Arg Thr Met Pro Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu
1 5 10 15

Val Thr Glu Tyr His Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys
20 25 30

Gly Leu Ala Glu Ser Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu
35 40 45

Val Ser Glu Ile Pro Pro Lys Gly Gly Ala Leu Gly Glu Gly Pro Gly

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50 55 530pct.ST25 60

Ala Ser Pro Cys Asn Gln His Ser Pro Tyr Trp Ala Pro Pro Cys Tyr
65 70 75 80

Thr Leu Lys Pro Glu Thr
85

<210> 2

<211> 41

<212> PRT

<213> Homo sapiens

<400> 2

Leu Cys Leu Val Ser Glu Ile Pro Pro Lys Gly Gly Ala Leu Gly Glu
1 5 10 15

Gly Pro Gly Ala Ser Pro Cys Asn Gln His Ser Pro Tyr Trp Ala Pro
20 25 30

Pro Cys Tyr Thr Leu Lys Pro Glu Thr
35 40

<210> 3

<211> 12

<212> PRT

<213> Homo sapiens

<400> 3

Trp Ala Pro Pro Cys Tyr Thr Leu Lys Pro Glu Thr
1 5 10

<210> 4

<211> 39

<212> DNA

<213> Homo sapiens

<400> 4
tgggcccccc catgttacac cctaaagcct gaaacctga

39

<210> 5

<211> 261

<212> DNA

<213> Homo sapiens

<400> 5
gaacggacga tgccccgaat tcccaccctg aagaacctag aggatcttgt tactgaatac 60
cacgggaact tttcggcctg gagtggtgtg tctaaggagac tggctgagag tctgcagcca 120
gactacagtg aacgactctg cctcgtcagt gagattcccc caaaaggagg ggcccttgagg 180
gagggggcctg gggcctcccc atgcaaccag catagcccct actggggccc cccatgttac 240
accctaaagc ctgaaacctg a 261

<210> 6

<211> 126

<212> DNA

<213> Homo sapiens

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tccccatgca accagcatag cccctactgg gcccccccat gttacaccct aaagcctgaa 120
acctga 126

<210> 7

<211> 37

<212> DNA

<213> Homo sapiens

<400> 7
ctcgtcagtg agattgccgc aaaaggaggg gcccttg 37

<210> 8

<211> 37

<212> DNA

<213> Homo sapiens

<400> 8
caagggccccc tccttttgcg gcaatctcac tgacgag 37

<210> 9

<211> 35

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<212> DNA

<213> Homo sapiens

<400> 9
gcccctactg ggccgccgca tggtacaccc taaag

35

<210> 10

<211> 35

<212> DNA

<213> Homo sapiens

<400> 10
ctttagggtg taacatgcgg cggcccagta ggggc

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<210> 11

<211> 39

<212> DNA

<213> Homo sapiens

<400> 11
gtcagtgaga ttccccagc aggaggggcc cttggggag

39

<210> 12

<211> 39

<212> DNA

<213> Homo sapiens

<400> 12
ctccccaagg gccctcctg ctgggggaat ctactgac

39

<210> 13

<211> 33

<212> DNA

<213> Homo sapiens

<400> 13
ggaggggcc ttggggcggg gcctggggcc tcc

33

<210> 14

<211> 33
<212> DNA
<213> Homo sapiens

<400> 14
ggaggcccca ggccccgccc caagggcccc tcc 33

<210> 15
<211> 33
<212> DNA
<213> Homo sapiens

<400> 15
cagcatagcc cctacgcggc ccccccattgt tac 33

<210> 16
<211> 33
<212> DNA
<213> HOMO SAPIENS

<400> 16
gtaacatggg ggggccgcgt aggggctatg ctg 33

<210> 17
<211> 44
<212> PRT
<213> Homo sapiens

<400> 17
Trp Leu Glu Arg Thr Met Pro Arg Ile Pro Thr Leu Lys Asn Leu Glu
1 5 10 15

Asp Leu Val Thr Glu Tyr His Gly Asn Phe Ser Ala Trp Ser Gly Val
20 25 30

Ser Lys Gly Leu Ala Glu Ser Leu Gln Pro Asp Tyr
35 40

<210> 18
<211> 81

<212> PRT

<213> Homo sapiens

<400> 18

His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu
1 5 10 15

Gln Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu
20 25 30

Pro Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His
35 40 45

Ala Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala
50 55 60

Glu Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro
65 70 75 80

Glu

<210> 19

<211> 324

<212> PRT

<213> Homo sapiens

<400> 19

Pro Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile
1 5 10 15

His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu
20 25 30

Gln Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu
35 40 45

Pro Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His
50 55 60

Ala Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala
65 70 75 80

Glu Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro
85 90 95

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Glu Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu
100 105 110

Glu Ser Gly Met Trp Glu Pro Leu Pro Leu Ser Ser Leu Glu Pro Ala
115 120 125

Pro Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu
130 135 140

Gln Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser
145 150 155 160

Gln Pro Phe Ser Leu Glu Glu Gln Glu Gln Ile Leu Ser Cys Leu Ser
165 170 175

Ile Asp Ser Leu Ser Leu Ser Asp Asp Ser Glu Lys Asn Pro Ser Lys
180 185 190

Ala Ser Gln Ser Ser Arg Asp Thr Leu Ser Ser Gly Val His Ser Trp
195 200 205

Ser Ser Gln Ala Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala
210 215 220

Arg Gly Arg Pro Thr Asp Thr Pro Ser Tyr Phe Asn Gly Val Lys Val
225 230 235 240

Gln Ile Gln Ser Leu Asn Gly Glu His Leu His Ile Arg Glu Phe His
245 250 255

Arg Val Lys Val Gly Asp Ile Ala Thr Gly Ile Ser Ser Gln Ile Pro
260 265 270

Ala Ala Ala Phe Ser Leu Val Thr Lys Asp Gly Gln Pro Val Arg Tyr
275 280 285

Asp Met Glu Val Pro Asp Ser Gly Ile Asp Leu Gln Cys Thr Leu Ala
290 295 300

Pro Asp Gly Ser Phe Ala Trp Ser Trp Arg Val Lys His Gly Gln Leu
305 310 315 320

Glu Asn Arg Pro

<210> 20

<211> 357

<212> PRT

<213> Homo sapiens

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<400> 20

Met Leu Lys Pro Ser Leu Pro Phe Thr Ser Leu Leu Phe Leu Gln Leu
1 5 10 15

Pro Leu Leu Gly Val Gly Leu Asn Thr Thr Ile Leu Thr Pro Asn Gly
20 25 30

Asn Glu Asp Thr Thr Ala Asp Phe Phe Leu Thr Thr Met Pro Thr Asp
35 40 45

Ser Leu Ser Val Ser Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val
50 55 60

Phe Asn Val Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
65 70 75 80

Gln Pro Thr Asn Leu Thr Leu His Tyr Trp Tyr Lys Asn Ser Asp Asn
85 90 95

Asp Lys Val Gln Lys Cys Ser His Tyr Leu Phe Ser Glu Glu Ile Thr
100 105 110

Ser Gly Cys Gln Leu Gln Lys Lys Glu Ile His Leu Tyr Gln Thr Phe
115 120 125

Val Val Gln Leu Gln Asp Pro Arg Glu Pro Arg Arg Gln Ala Thr Gln
130 135 140

Met Leu Lys Leu Gln Asn Leu Val Ile Pro Trp Ala Pro Glu Asn Leu
145 150 155 160

Thr Leu His Lys Leu Ser Glu Ser Gln Leu Glu Leu Asn Trp Asn Asn
165 170 175

Arg Phe Leu Asn His Cys Leu Glu His Leu Val Gln Tyr Arg Thr Asp
180 185 190

Trp Asp His Ser Trp Thr Glu Gln Ser Val Asp Tyr Arg His Lys Phe
195 200 205

Ser Leu Pro Ser Val Asp Gly Gln Lys Arg Tyr Thr Phe Arg Val Arg
210 215 220

Ser Arg Phe Asn Pro Leu Cys Gly Ser Ala Gln His Trp Ser Glu Trp
225 230 235 240

Ser His Pro Ile His Trp Gly Ser Asn Thr Ser Lys Glu Asn Pro Phe
245 250 255

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Leu Phe Ala Leu Glu Ala Val Val Ile Ser Val Gly Ser Met Gly Leu
260 265 270

Ile Ile Ser Leu Leu Cys Val Tyr Phe Trp Leu Glu Arg Thr Met Pro
275 280 285

Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu Val Thr Glu Tyr His
290 295 300

Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys Gly Leu Ala Glu Ser
305 310 315 320

Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu Val Ser Glu Ile Pro
325 330 335

Pro Lys Gly Gly Ala Leu Gly Glu Gly Pro Gly Ala Ser Pro Cys Asn
340 345 350

Gln His Ser Pro Tyr
355

<210> 21

<211> 341

<212> PRT

<213> Homo sapiens

<400> 21

Met Leu Lys Pro Ser Leu Pro Phe Thr Ser Leu Leu Phe Leu Gln Leu
1 5 10 15

Pro Leu Leu Gly Val Gly Leu Asn Thr Thr Ile Leu Thr Pro Asn Gly
20 25 30

Asn Glu Asp Thr Thr Ala Asp Phe Phe Leu Thr Thr Met Pro Thr Asp
35 40 45

Ser Leu Ser Val Ser Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val
50 55 60

Phe Asn Val Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
65 70 75 80

Gln Pro Thr Asn Leu Thr Leu His Tyr Trp Tyr Lys Asn Ser Asp Asn
85 90 95

Asp Lys Val Gln Lys Cys Ser His Tyr Leu Phe Ser Glu Glu Ile Thr
100 105 110

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Ser Gly Cys Gln Leu Gln Lys Lys Glu Ile His Leu Tyr Gln Thr Phe
 115 120 125

Val Val Gln Leu Gln Asp Pro Arg Glu Pro Arg Arg Gln Ala Thr Gln
 130 135 140

Met Leu Lys Leu Gln Asn Leu Val Ile Pro Trp Ala Pro Glu Asn Leu
 145 150 155 160

Thr Leu His Lys Leu Ser Glu Ser Gln Leu Glu Leu Asn Trp Asn Asn
 165 170 175

Arg Phe Leu Asn His Cys Leu Glu His Leu Val Gln Tyr Arg Thr Asp
 180 185 190

Trp Asp His Ser Trp Thr Glu Gln Ser Val Asp Tyr Arg His Lys Phe
 195 200 205

Ser Leu Pro Ser Val Asp Gly Gln Lys Arg Tyr Thr Phe Arg Val Arg
 210 215 220

Ser Arg Phe Asn Pro Leu Cys Gly Ser Ala Gln His Trp Ser Glu Trp
 225 230 235 240

Ser His Pro Ile His Trp Gly Ser Asn Thr Ser Lys Glu Asn Pro Phe
 245 250 255

Leu Phe Ala Leu Glu Ala Val Val Ile Ser Val Gly Ser Met Gly Leu
 260 265 270

Ile Ile Ser Leu Leu Cys Val Tyr Phe Trp Leu Glu Arg Thr Met Pro
 275 280 285

Arg Ile Pro Thr Leu Lys Asn Leu Glu Asp Leu Val Thr Glu Tyr His
 290 295 300

Gly Asn Phe Ser Ala Trp Ser Gly Val Ser Lys Gly Leu Ala Glu Ser
 305 310 315 320

Leu Gln Pro Asp Tyr Ser Glu Arg Leu Cys Leu Val Ser Glu Ile Pro
 325 330 335

Pro Lys Gly Gly Ala
 340